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UNITED STATES DEPARTMENT OF AGRICULTURE,  
STATES RELATIONS SERVICE,  
A. C. TRUE, DIRECTOR.

LIST OF STATION PUBLICATIONS RECEIVED BY THE OFFICE OF  
EXPERIMENT STATIONS DURING JANUARY, 1919.

NOTE.--The station publications noted in this list are not distributed by the Department of Agriculture, but can usually be obtained as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

- ✓ Grape Syrup. By F.T. Bioletti and W.V. Cruess. (California Sta. Bul. 303, pp. 225-242.)
- The Effects of Inbreeding and Crossbreeding upon Development. By D.F. Jones. (Connecticut State Sta. Bul. 207, pp. 113, pls. 12, figs. 3.)
- ✓ Spring Wheat for Illinois. By W.L. Burlison and R.W. Stark. (Illinois Sta. Bul. 214, pp. 312-320.)
- ✓ Miscellaneous Food Materials. By C.D. Woods. (Maine Sta. Official Inspections 87, pp. 33-60.)
- ✓ Commercial Agricultural Seeds, 1918. By C.D. Woods. (Maine Sta. Official Inspections 88, pp. 61-76.)
- Commercial Feeding Stuffs, 1917-18. By C.D. Woods. (Maine Sta. Official Inspections 89, pp. 77-100.)
- ✓ Commercial Fertilizers, 1918. By C.D. Woods. (Maine Sta. Official Inspections 90, pp. 101-120.)
- The Thirty-first Annual Report of the Maryland State College of Agriculture, 1917-1918. (Maryland Sta. Rpt. 1918, pp. X + 270, pls. 3, figs. 53.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and H. Beaman. (Massachusetts Sta. Met. Bul. 360, pp. 4.)
- Fourth Annual Seed Laboratory Report 1916-1917. By R.C. Dahlberg and W.L. Oswald. (Minnesota Sta. Bul. 175, pp. 13.)
- ✓ Minnesota Weeds, --III, Descriptions and Identifications. By W.L. Oswald and A. Boss. (Minnesota Sta. Bul. 176, pp. 43, figs. 25.)
- ✓ Butterfat Losses in Creameries. By R.M. Washburn, A.C. Dahlberg, J. Sorenson, and M.P. Mortensen. (Minnesota Sta. Bul. 177, pp. 12.)
- The Tarnished Plant-Bug and Its Injury to Nursery Stock. By L. Haseman. (Missouri Sta. Research Bul. 29, pp. 26, figs. 9.)
- Plum Pocket and Leaf Gall on Americana Plums. By D.B. Swingle and H.F. Morris. (Montana Sta. Bul. 123, pp. 165-182, figs. 6.)
- Fifteenth Annual Report of the State Entomologist of Montana. By R.A. Cooley. (Montana Sta. Bul. 124, pp. 193-208.)



- Fourth Annual Report of the Montana Grain Inspection Laboratory, By A. Atkinson and E.W. Jahnke. (Montana Sta. Bul. 125, pp. 19.)
- Plum Pocket and Leaf Gall on Americana Plums. By D.B. Swingle and H.E. Morris. (Montana Sta. Circ. 77, pp. 151-164, figs. 6.)
- Trees and Shrubs on the Farm. By O.B. Whipple and C.C. Starring, (Montana Sta. Circ. 78, pp. 23.)
- A Poultry House for the Back Yard with Suggestions for Feeding. By W.F. Schoppe (Montana Sta. Circ. 79, pp. 25-32, fig. 1.)
- Twenty-Fourth Annual Report for the Fiscal Year Ending June 30, 1917. By F.B. Linfield. (Montana Sta. Rpt., pp. 209-272, fig. 1.)
- ✓ Farm Profits and Factors Influencing Farm Profits on 460 Dairy Farms in Sussex County, New Jersey. By F. App. (New Jersey Stas. Bul. 320, pp. 111, pls. 3, figs. 9,).
- ✓ The Angoumois Grain Moth. By T.J. Headlee. (New Jersey Stas. Circ. 92, pp. 4, figs. 2.)
- ✓ Special Bulletin Food Department. (North Dakota Sta. Spec. Food Bul., 5(1918), No. 5, pp. 16.)
- ✓ A Fifth Pair of Factors, Aa, for Aleurone Color in Maize, and Its Relation to the Cc and Rr pairs. By R.A. Emerson. (New York Cornell Sta. Memoir 16, pp. 225-282.)
- Monthly Bulletin of the Ohio Agricultural Experiment Station. (Ohio Sta. Mo. Bul., 3(1918), No. 12, pp. 351-381, figs. 6.)
- ✓ ✓ Monthly Bulletin of the Ohio Agricultural Experiment Station. (Ohio Sta. Mo. Bul., 4(1919), No. 1, pp. 31, figs. 10.) ✓
- ✓ Experiments with Bolly Refuse. By C.T. Dowell and W.G. Friedemann. (Oklahoma Sta. Bul. 121, pp. 8.)
- ✓ Twenty-Seventh Annual Report, Year Ending June 30, 1918. (Oklahoma Sta. Rpt. 1918, pp. 56.)
- ✓ Thirty-first Annual Report of the South Carolina Experiment Station of Clemson Agricultural College. (South Carolina Sta. Rpt. 1918, pp. 44.)
- Legislation Concerning Water-Rights. By O.W. Israelsen. (Utah Sta. Circ. 38, pp. 25, fig. 1.)
- Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Western Washington Sta. Mo. Bul., 6(1918), No. 9, pp. 121-136, figs. 4.)
- Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Western Washington Sta. Mo. Bul., 6(1919) No. 10, pp. 137-152, figs. 8.)
- ✓ Orchard Spraying v. Dusting. By N.J. Giddings. (West Virginia Sta. Bul. 167, pp. 18, figs. 2.)





Analyses of West Virginia Soils (Second Report). By R.M. Salter and C.F. Wells.  
(West Virginia Sta. Bul. 168, pp. 36, fig. 1.)

List of Available Publications. (West Virginia Sta. Circ. 29, pp. 4.)





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Thirty-first Annual Report, 1919. (Alabama Col. Sta. Rpt. 1919, pp. 36.)

Grazing Peanuts with Hogs v. Marketing a Crop of Peanuts. By G.S. Templeton. (Alabama Col. Sta. Bul. 206, pp. 143-150.)

The Argentine Ant and How to Control It. By F.L. Thomas. (Alabama Col. Sta. Circ. 39, pp. 53-58.)

Varieties of Cotton, 1909-1917. By W.E. Ayres. (Arkansas Sta. Bul. 157, pp. 39, figs. 2.)

Nature and Progress of the Work of the Agricultural Experiment Station. By M. Nelson. (Arkansas Sta. Bul. 158, pp. 63, figs. 4.)

A Study of the Effects of Freezes on Citrus in California. By H.J. Webber, et al. (California Sta. Bul. 304, pp. 243-321, figs. 23.)

Handbook of Plant Disease and Pest Control. By R.E. Smith, E.O. Essig, and G.P. Gray. (California Sta. Circ. 204, pp. 36.)

Jack Cheese. By H.S. Baird. (California Sta. Circ. 206, pp. 11, figs. 3.)

Neufchatel Cheese. By H.S. Baird. (California Sta. Circ. 207, pp. 4, figs. 2.)

Annual Report, 1918. (California Sta. Ann. Rpt., 1918, pp. 139, pl. 1.)

Alfalfa Dodder in Colorado. By W.W. Robbins and G.E. Egginton. (Colorado Sta. Bul. 248, pp. 15, figs. 8.)

Mendelian Inheritance in Wheat and Barley Crosses, With Probable Error Studies on Class Frequencies. By A. Kezer and B. Eoyack. (Colorado Sta. Bul. 249, pp. 139, pls. 9, figs. 10.)

Limestone Action on Acid Soils. By R. Stewart and F.A. Wyatt. (Illinois Sta. Bul. 212, pp. 265-296, figs. 2.)

Two Illinois Rhubarb Diseases. By F.L. Stevens. (Illinois Sta. Bul. 213, pp. 297-312, figs. 19.)

Champaign County Soils. By C.G. Hopkins, J.G. Mosier, E. Van Alstine, and F.W. Garrett. (Illinois Sta. Soil Rpt. No. 18, pp. 61, pls. 4, figs. 15.)



- Swine Feeding--Feeding Trials with Corn By-products, Palmo Midds, and Commercial Mixed Hog Feeds, 1917-18. By J.H. Skinner and C.G. Starr. (Indiana Sta. Bul. 219, pp. 36, figs. 2.)
- Cattle Feeding XIV-Winter Steer Feeding, 1917-18. By J.H. Skinner and C.G. Starr. (Indiana Sta. Bul. 220, popular ed., pp. 7, fig. 1.)
- Sheep Feeding VIII--Fattening Western Lambs, 1917-18. By J.H. Skinner and C.G. Starr. (Indiana Sta. Bul. 221, popular ed., pp. 7, fig. 1.)
- The Value of Manure on Indiana Soils. By A.T. Wiancko and S.C. Jones. (Indiana Sta. Bul. 222, pp. 20, figs. 6.)
- Selection of Disease-free Seed Corn. By G.N. Hoffer and J.R. Holbert. (Indiana Sta. Bul. 224, pp. 16, figs. 21.)
- The Farm Tractor. By W. Aitkenhead. (Indiana Sta. Circ. 89, pp. 24, figs. 12.)
- ✓ Thirty-first Annual Report, 1918. (Indiana Sta. Ann. Rpt. 1918, pp. 99, figs. 10)
- A Rural Social Survey of Orange Township, Blackhawk County, Iowa. By G.H. Von Tungeln. (Iowa Sta. Bul. 184, pp. 393-450, figs. 21.)
- ✓ Kansas State Live Stock Registry Board. (Kansas Sta. Insp. Circ. 8, pp. 149.) *220p*
- ✓ Treatment of Seed Wheat with Formalin. By H. Garman and Carrie L. Hathaway. (Kentucky Sta. Circ. 22, pp. 21-27, figs. 2.)
- ✓ Feeding Trials of Velvet-bean Feed, Palm-Kernel Meal and Various Grain Mixtures, For Dairy Cows. By J.J. Hooper and J.W. Mutter. (Kentucky Sta. Circ. 23, pp. 29-38, figs. 2.) *220p*
- Agricultural Seed Inspected in 1917. By C.P. Smith. (Maryland Sta. Bul. 220, pp. 11-63.)
- An Accurate Method of Determining Which Hens are Laying. By R.H. Waite. Maryland Sta. Bul. 221, pp. 63-73, figs. 5.)
- ✓ Late Dormant y. Delayed Dormant or Green Tip Treatment for the Control of Apple Aphids. By W.S. Regan. (Massachusetts Sta. Bul. 184, pp. 43-57.) ✓
- ✓ The Inheritance of Seed Coat Color in Garden Beans. By J.K. Shaw and J.B. Norton. (Massachusetts Sta. Bul. 185, pp. 55-104.) ✓
- Inspection of Commercial Fertilizers. By H.D. Haskins, L.S. Walker, and H.B. Pierce. (Massachusetts Sta. Control Ser. Bul. 9, pp. 73.)
- Inspection of Commercial Feedstuffs. By P.H. Smith. Grain Rations for Dairy Stock. By J.B. Lindsey. (Massachusetts Sta. Control Ser. Bul. 10, pp. 24.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and A.L. Chandler. (Massachusetts Sta. Met. Bul. 361, pp. 4.)
- Commercial Feeding Stuffs. By A.J. Patten, C.F. Barnum, E.F. Berger, T.E. Friedemann, and P. O'Meara. (Michigan Sta. Bul. 282, pp. 68.)
- Special Report of the Upper Peninsula Experiment Station. By B.W. Housholder. (Michigan Sta. Spec. Bul. 90, pp. 31, figs. 23.)





Some General Information on Lime and Its Uses and Functions in Soils. By M.M. McCool and C.E. Millar. (Michigan Sta. Spec. Bul. 91, pp. 21, figs. 12.)

Soluble Salt Content of Soils and Some Factors Affecting It. By M.M. McCool and C.E. Millar. (Michigan Sta. Tech. Bul. 43, pp. 47, figs. 4.)

Quarterly Bulletin of the Michigan Agricultural Experiment Station. (Michigan Sta. Quart. Bul., 1(1918), No. 2, pp. 41-85, figs. 10.)

✓ Twenty Sixth Annual Report, 1918. (Minnesota Sta. Ann. Rpt. 1918, pp. 98.)

Profits from Milk Cows on General Cornbelt Farms. By O.R. Johnson and R.M. Green. (Missouri Sta. Bul. 159, pp. 20, figs. 5.)

Inspection of Commercial Fertilizers, 1918. By F.B. Mumford. (Missouri Sta. Bul. 160, pp. 31.)

✓ Effect of Limited Food on Growth of Beef Animals. By P.F. Trowbridge, C.R. Moulton and L.D. Haigh. (Missouri Sta. Res. Bul. 28, pp. 129, pls. 3, figs. 23.) 3 copies

Forage Crops. By T.A. Kiesselbach. (Nebraska Sta. Bul. 169, pp. 36, figs. 7.)

Fall Lamb Feeding. By H.J. Gramlich. (Nebraska Sta. Bul. 170, pp. 28.)

Profits and Factors Influencing Profits on 150 Poultry Farms in New Jersey. By Frank App, A.G. Waller, and H.R. Lewis. (New Jersey Sta. Bul. 329, pp. 84, pls. 4, figs. 19.)

Thirty-sixth Annual Report, 1917. (New York State Sta. Ann. Rpt. 1917, pp. VII + 734, pls. 68, figs. 34.)

Special Bulletin Food Department. (North Dakota Sta. Spec. Food Bul., 5(1918), No. 7, pp. 161-176.)

The Farmers' Elevator Movement in Ohio. By H.E. Erdman. (Ohio Sta. Bul. 331, pp. 133-160, figs. 4.)

The Part of Milk Contests in Improving the Milk Supply of Portland, Oregon. By E.C. Callaway and P.S. Lucas. (Oregon Sta. Bul. 156, pp. 24, figs. 9.)

Preliminary Report on the Improvement of Marsh Lands in Western Oregon. By W.L. Powers. (Oregon Sta. Bul. 157, pp. 32, figs. 24.)

✓ A Variety Test of Cabbage. By C.E. Myers and J.S. Gardner. (Pennsylvania State Sta. Bul. 154, pp. 30, figs. 12.)

The Colon-typhoid Intermediates as Causative Agents of Disease in Birds: I.-- The Para-typhoid Bacteria. By P. Hadley, Marguerite W. Elkins and Dorothy W. Caldwell. (Rhode Island Sta. Bul. 174, pp. IV + 216.)

✓ The Influence of Crop Plants on Those Which Follow, I. By B.L. Hartwell and S.C. Damon. (Rhode Island Sta. Bul. 175, pp. 30, figs. 2.)

✓ Analyses of Commercial Fertilizers. By P.H. Vessels. (Rhode Island Sta. Insr. Bul. October 1918, pp. 14.)

Commercial Feeding Stuffs, 1917-18. By F.D. Fuller. (Texas Sta. Bul. 234, pp. 416, figs. 2.)



Cooperative Fertilizer Experiments with Cotton, Corn, Sweet Potatoes and Irish Potatoes, 1908-1917. By G.S. Fraps. (Texas Sta. Bul. 235, pp. 128.)

✓ The Hog Louse. By H.R. Watts. (Tennessee Sta. Bul. 120, pp. 16, figs. 7.) 2 cop.

Licensed Stallions in Utah During the Season of 1918. By W.E. Carroll. (Utah Sta. Circ. 35, pp. 24.)

Field Beans. By G. Stewart. (Utah Sta. Circ. 37, pp. 45, figs. 15.)

A Day at the Utah Agricultural Experiment Station. By M.C. Merrill, O.W. Israelsen, and B. Alder. (Utah Sta. Circ. 39, pp. 57, figs. 106.)

✓ The Wind Dissemination of the Spores of Bunt, or Stinking Smut of Wheat. By F.D. Heald and D.C. George. (Washington Sta. Bul. 151, pp. 23, figs. 2.) 2 cop.

✓ Two Important Varieties of Winter Wheat--A Comparison of Red Russian and Hybrid 128. By E.F. Gaines. (Washington Sta. Pop. Bul. 116, pp. 7, fig. 1.)-4 cop.

Monthly Bulletin of the Western Washington Agricultural Experiment Station, Puyallup, Washington. (Western Washington Sta. Mo. Bul., 6 (1919), No. 11, pp. 153-168, figs. 3.)

Oats in Wyoming. By T.S. Parsons. (Wyoming Sta. Bul. 118, pp. 27, figs. 2.)

Spring Wheats in Wyoming. By T.S. Parsons. (Wyoming Sta. Bul. 119, pp. 29-50, fig. 1.)





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LIST OF STATION PUBLICATIONS RECEIVED BY THE OFFICE  
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NOTE.--The station publications noted in this list are not distributed by the Department of Agriculture, but can usually be obtained, as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

Summary of the Annual Reports of the Farm Advisors of California for December 1, 1917, to December 1, 1918. By B.H. Crocheron. (California Sta. Circ. 208, pp. 59, fig. 1.)

Insects Attacking the Potato Crop in Connecticut. By W.E. Britton. (Connecticut State Sta. Bul. 208, pp. 101-119, pls. 8, figs. 6.)

Fertilizer Report for 1918. By E.H. Jenkins and E.M. Bailey. (Connecticut State Sta. Bul. 209, pp. 119-170.)

Rearing Chickens, I, II. L.E. Card and W.F. Kirkpatrick. (Connecticut Storrs Sta. Bul. 96, pp. 353-394, figs. 3.)

Cattle Lice and Their Control. By G.H. Lamson, Jr. (Connecticut Storrs Sta. Bul. 97, pp. 395-414, figs. 9.)

Report for Three Years of the Educational Scoring of Connecticut Dairy Products. By H.F. Judkins. (Connecticut Storrs Sta. Bul. 98, pp. 415-446.)

Studies in Processing Milk. By H.F. Judkins and P.A. Downs. (Connecticut Storrs Sta. Bul. 99, pp. 447-470.)

A Study of the Relative Reliability of Official Tests of Dairy Cows. By W.W. Yapp. (Illinois Sta. Bul. 215, pp. 321-339, figs. 7.)

Some Soil Treatments for Mature Apple Orchards. By B.S. Pickett. (Illinois Sta. Circ. 233, pp. 6, figs. 3.)

Inoculation of Legumes. By P. Emerson. (Idaho Sta. Circ. 7, pp. 8, figs. 4.)

Spring Small Grains in Indiana. By A.T. Wiancko and C.O. Croner. (Indiana Sta. Bul. 225, pp. 20, figs. 4.)

White Top and Its Control. By F.J. Pipal. (Indiana Sta. Circ. 85, pp. 12, figs. 8.)

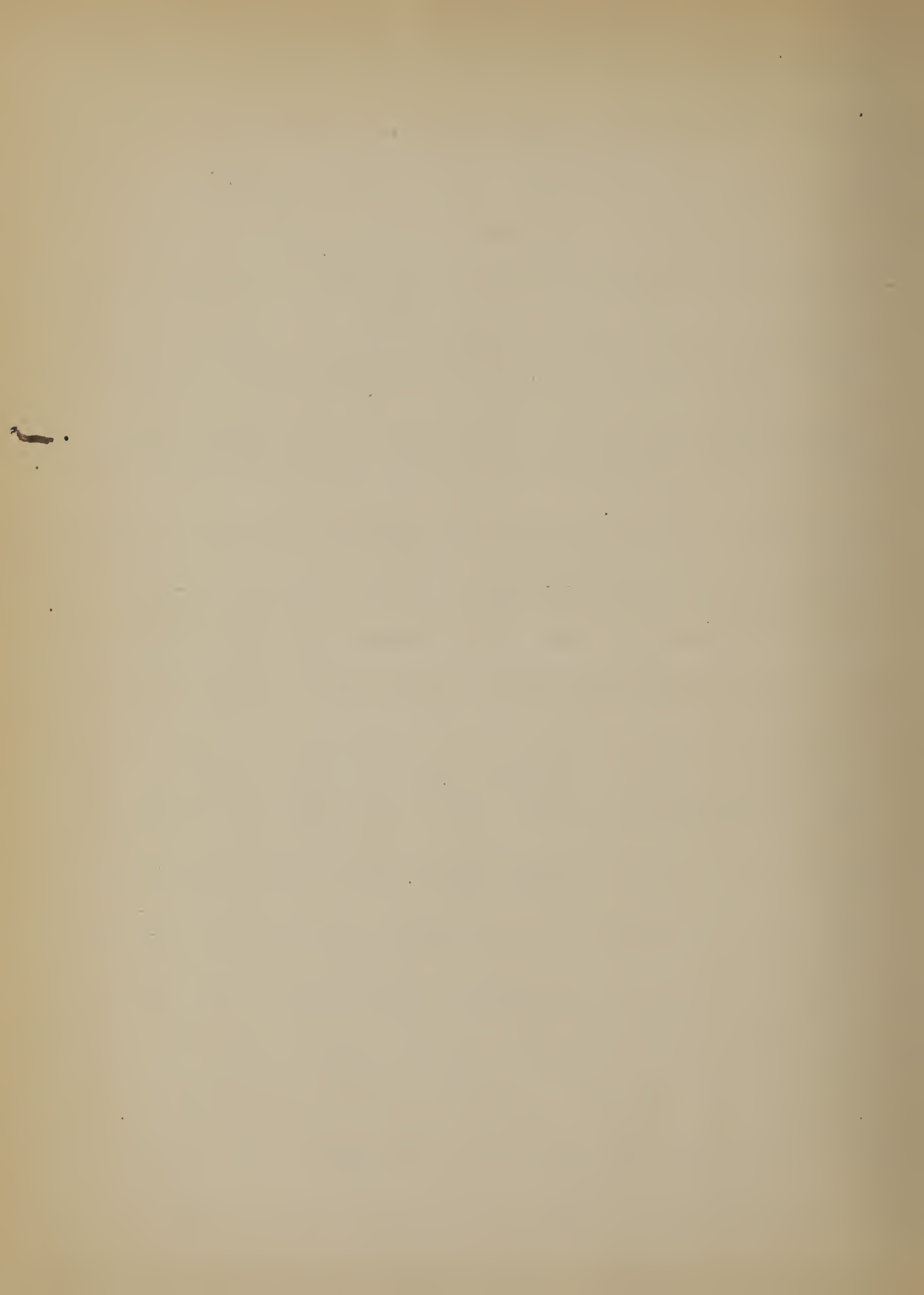
Winter Injury of Fruit Trees. By J. Oskamp. (Indiana Sta. Circ. 87, pp. 12, figs. 9.)

The Strawberry Leaf-Roller. By R.L. Webster. (Iowa Sta. Bul. 179, pp. 233-256, figs. 8.)

Soil Erosion in Iowa. By E.E. Eastman and J.S. Glass. (Iowa Sta. Bul. 183, pp. 345-391, pl. 1, figs. 32.)



- Soil Inoculation With Azotobacter. By P. Emerson. (Iowa Sta. Res. Bul. 45, pp. 25-64, figs. 7.)
- Studies on the Clarification of Milk--II. By B.W. Hammer and A.J. Hauser. (Iowa Sta. Res. Bul. 47, pp. 75-87, figs. 2.)
- Milk as the Sole Diet of Ruminants. By A.C. McCandlish. (Iowa Sta. Res. Bul. 48, pp. 10.)
- Director's Report, 1917-18. (Kansas Sta. Ann. Rpt. 1918, pp. 63, figs. 5.)
- Experiments with Fertilizers on Greenhouse Crops. The Pollination of Greenhouse Tomatoes. By T.H. White. (Maryland Sta. Bul. 222, pp. 73-101, figs. 3.)
- A Comparison of Several Species of Lepidoptera Infesting Peach and Apple in Maryland, With Additional Notes on the Oriental Peach Moth. By P. Garman. (Maryland Sta. Bul. 223, pp. 101-126, figs. 16.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and A.L. Chandler. (Massachusetts Sta. Met. Bul. 362, pp. 4.)
- Poultry Buildings, Laying and Breeding Houses. By H.R. Lewis and W.C. Thompson. (New Jersey Stas. Bul. 325, pp. 102, figs. 60.)
- ✓ Commercial Feeding Stuffs and Registrations for 1918. By C.S. Cathcart. (New Jersey Stas. Bul. 327, pp. 79.)
- Some Important Orchard Plant Lice. By T.J. Headlee. (New Jersey Stas. Bul. 328, pp. 27, figs. 7.)
- Report of the Director for 1918. By J.G. Lipman. (New Jersey Stas. Bul. 330, pp. 25, fig. 1.)
- Analyses of Materials Sold as Insecticides and Fungicides During 1918. By C.S. Cathcart and R.L. Willis. (New Jersey Stas. Bul. 333, pp. 16.)
- Common Diseases of Ornamental Plants. By M.T. Cook. (New Jersey Stas. Circ. 97, pp. 23, figs. 10.)
- Common Diseases of Shade and Ornamental Trees. By M.T. Cook. (New Jersey Stas. Circ. 98, pp. 27, figs. 12.)
- Asparagus Growing in New Jersey. By R.W. DeBaum. (New Jersey Stas. Circ. 99, pp. 12, figs. 15.)
- Insect Enemies of Greenhouse and Ornamental Plants. By H.B. Weiss. (New Jersey Stas. Circ. 100, pp. 19, figs. 32.)
- The Home Butchering and Curing of Pork. By J.M. Hunter. (New Jersey Stas. Circ. 101, pp. 16, figs. 9.)
- Diseases of Grains and Forage Crops. By M.T. Cook and J.P. Helyar. (New Jersey Stas. Circ. 102, pp. 16, figs. 5.)
- Early-Tomato Growing in New Jersey. By R.W. DeBaum. (New Jersey Stas. Circ. 103, pp. 29, figs. 22.)
- Diseases of Tomato. By M.T. Cook and W.H. Martin. (New Jersey Stas. Circ. 104, pp. 15, figs. 6.)





Potato Diseases in New Jersey. By M.T. Cook. (New Jersey Stas. Circ. 105, pp. 38, figs. 20)

Thirty-Eighth Annual Report of the New Jersey State Agricultural Experiment Station and the Thirtieth Annual Report of the New Jersey Agricultural College Experiment Station, 1917. (New Jersey Stas. Rpts. 1917, pp. XXXVIII+ 563, pls. 14, figs. 12.)

Experiments in Fertilizing a Crop Rotation. By T.L. Lyon. (New York Cornell Sta. Bul. 399, pp. 17-30.)

The Translocation of Calcium in a Soil. By B.D. Wilson. (New York Cornell Sta. Memoir 17, pp. 293, figs. 3.)

A Study of Bacteria in Ice Cream During Storage. By H.B. Ellenberger. (New York Cornell Sta. Memoir 18, pp. 325-362, figs. 2.)

Thirty-first Annual Report, New York State College of Agriculture at Cornell University and Agricultural Experiment Station, 1918. (New York Cornell Sta. Rpt., 1918, pp. CIII, fig. 1.) *not used in present 1920*

Monthly Bulletin of the Ohio Agricultural Experiment Station. (Ohio Sta. Mo. Bul., 4(1919), No. 2, pp. 33-64, figs. 18.)

Monthly Bulletin of the Ohio Agricultural Experiment Stations. (Ohio Sta. Mo. Bul., 4(1919), No. 3, pp. 65-96, figs. 14.)

Fertilizer Experiments on Dekalb Soil. Yields of Clover, Corn and Kentucky Blue Grass. By J.W. White. (Pennsylvania Sta. Bul. 155, pp. 20, figs. 8.)

Experiments at Substation No. 3, Angleton, Texas, 1909-1916. By N.E. Winters. (Texas Sta. Bul. 229, pp. 33, pl. 1, figs. 9.)

Spacing of Rows in Corn and Its Effect Upon Grain Yield. By A.B. Connor. (Texas Sta. Bul. 230, pp. 20, figs. 3.)

The Beemoth or Waxworm. By F.B. Paddock. (Texas Sta. Bul. 231, pp. 38.)

Mineral Requirements of Sheep. By G.S. Fraps. (Texas Sta. Bul. 232, pp. 20, fig. 1.)

Commercial Fertilizers in 1917-1918. By G.S. Fraps. (Texas Sta. Bul. 233, pp. 25.)

Grain Sorghum Improvement. By A.B. Conner and R.E. Karper. (Texas Sta. Bul. 236, pp. 12, figs. 4.)

Sugar-Beet Production in Utah. By F.S. Harris and W.I. Butt. (~~Texas~~ <sup>Utah</sup> Sta. Circ. 34, pp. 28, figs. 15.)

Practical Information on the Measurement of Irrigation Water. By O.W. Israelson. (Utah Sta. Circ. 36, pp. 29, figs. 0.)

Twenty-Eighth Annual Report, 1918. (Washington Sta. Bul. 153, pp. 45, figs. 8.)

Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Western Washington Sta. Mo. Bul., 6(1919), No. 12, pp. 169-184, figs. 4.)

Prune the Cherry Trees. By R.H. Roberts. (Wisconsin Sta. Bul. 298, pp. 30, figs. 21.)





The Milling and Baking Qualities of Wisconsin Grown Wheats. By B.D. Leith.  
(Wisconsin Sta. Res. Bul. 43, pp. 38, figs. 4.)



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- Soy Beans in Alabama. By E. F. Cauthen. (Alabama College Sta. Bul. 203, pp. 87-123, figs. 10.)
- Annual Report of Alaska Agricultural Experiment Stations for 1917. (Alaska Stas. Rpt. 1917, pp. 96, pls. 9.)
- Dry-farming in Arizona. By A. M. McOmie, C. R. Fillerup, and L. L. Bates. (Arizona Sta. Bul. 84, pp. 92, figs. 47.)
- Twenty-eighth Annual Report, 1917. (Arizona Sta. Rpt. 1917, pp. 396, figs. 17.)
- A Bad Farm Practice. By W. E. Ayres. (Arkansas Sta. Circ. 47, pp. 4, fig. 1.)
- The Influence of Barley on the Milk Secretion of Cows. By F. W. Woll and E. C. Voorhies. (California Sta. Bul. 305, pp. 323.)
- The Function of the Farm Bureau. By B. H. Crocheron. (California Sta. Circ. 209, pp. 16.)
- Suggestions to the Settler in California. By T. F. Hunt et al. (California Sta. Circ. 210, pp. 80, figs. 9.)
- Saving Raisins by Sulfuring. By F. T. Bioletti and A. E. Way. (California Sta. Circ. 211, pp. 4, figs. 3.)
- Wheat Investigations.--Varieties. By A. E. Grantham. (Delaware Sta. Bul. 121, pp. 49, figs. 2.)
- Annual Report, 1918. (Delaware Sta. Bul. 122, pp. 31.)
- Velvet Bean Varieties. By J. M. Scott. (Florida Sta. Bul. 152, pp. 213-233, figs. 10.)
- Napier and Merker Grasses. By J. B. Thompson. (Florida Sta. Bul. 153, pp. 235-249, figs. 7.)
- The Value of Ammonification Tests. By J. C. Temple. (Georgia Sta. Bul. 126, pp. 18.)
- Gum Formation with Special Reference to Cankers and Decays of Woody Plants. By B. B. Higgins. (Georgia Sta. Bul. 127, pp. 21-59, figs. 17.)



- Cotton and Corn.--Cultural Tests, and Variety Tests of 1917 and 1918. By C. K. McClelland. (Georgia Sta. Bul. 128, pp. 61-78.)
- The Velvet Bean. By C. K. McClelland. (Georgia Sta. Bul. 129, pp. 81-98, figs. 6.)
- Thirtieth and Thirty-first Annual Reports, 1917 and 1918. (Georgia Sta. Ann. Rpts., 1917, 1918, pp. 24.)
- The "Slick Spots" of Middle Western Idaho with Suggestions for Their Elimination. By P. P. Peterson. (Idaho Sta. Bul. 114, pp. 11, figs. 3.)
- Field Pea Production in North Idaho. By H. W. Hulbert. (Idaho Sta. Bul. 115, pp. 27, figs. 3.)
- The Cost of Milk Production Computed on the Year Basis. By F. A. Pearson. (Illinois Sta. Bul. 216, pp. 341-364.)
- Operation of the Cream Receiving Station. By N. W. Hepburn and H. A. Ruehe. (Illinois Sta. Circ. 234, pp. 19, figs. 15.)
- Cattle Feeding.--XIV, Winter Steer Feeding, 1917-18. By J. H. Skinner and C. G. Starr. (Indiana Sta. Bul. 220, pp. 26.)
- Sheep Feeding.--VIII, Fattening Western Lambs, 1917-18. By J. H. Skinner and C. G. Starr. (Indiana Sta. Bul. 221, pp. 20.)
- So-called Medicinal Hog Cholera Remedies and Cures. By C. H. Clink and D. B. Clark. (Indiana Sta. Bul. 223, pp. 24, figs. 2.)
- The Value of Legumes on Indiana Soils. By A. T. Wiancko, S. D. Conner, and S. C. Jones. (Indiana Sta. Bul. 226, pp. 19, figs. 6.)
- Corn Supplements and Substitutes for Fattening Lambs. By R. Dunn and J. M. Evvard. (Iowa Sta. Bul. 185, pp. 14.)
- Studies on the Crown Rust of Oats. By L. E. Melhus and L. W. Durrell. (Iowa Sta. Research Bul. 49, pp. 113-144, figs. 6.)
- Johnson Grass as a Weed in Southwestern Iowa. By L. H. Pammel and C. M. King. (Iowa Sta. Circ. 55, pp. 4, figs. 3.)
- Tuberculosis in Farm Poultry. By W. W. Dimock and L. E. Willey. (Iowa Sta. Circ. 56, pp. 12, figs. 6.)
- An Improved Method of Potato Seed Treatment. By L. E. Melhus and J. C. Gilman. (Iowa Sta. Circ. 57, pp. 8, figs. 10.)
- The Use of Lime on Iowa Soils; Limestone and Fertilizer Dealers. By G. E. Corson. (Iowa Sta. Circ. 58, pp. 7.)
- Test Your Clover and Timothy Seed. By C. M. King and L. H. Pammel. (Iowa Sta. Circ. 59, pp. 2.)





- ✓ Annual Report, 1918. (Iowa Sta. Ann. Rpt., 1918, pp. 60, figs. 3.)
- ✓ An Experiment Comparing Velvet Bean Meal, Tankage and Soy Bean Meal as Supplements to Corn Meal in Feeding Hogs. By E. S. Good and L.B.Mann. (Kentucky Sta. Circ. 20, pp. 4.)
- Live Stock and Other Factors for Profitable Farming in Northern Kentucky. By J. B. Hutson. (Kentucky Sta. Circ. 21, pp. 5-20.)
- Results of Progress on Animal Husbandry Investigations in 1917. By J. W. Gowen. (Maine Sta. Bul. 274, pp. 203-208, pls. 2, fig. 1.)
- Abstracts of Papers Not Included Bulletins, Finances, Meteorology, Index.. (Maine Sta. Bul. 275, pp. 237-244 + XII.)
- Seed Inspected in March and April, 1918. By C. P. Smith. (Maryland Sta. Bul. 224, pp. 127-155.)
- ✓ Thirtieth Annual Report, 1917, Parts I and II. (Massachusetts Sta. Ann. Rpt., 1917, pp. IX + 63a + 348, pls. 11, figs. 4.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J. E. Ostrander and A. L. Chandler. (Massachusetts Sta. Met. Bul. 363, pp. 4.)
- ✓ Some Factors Influencing the Growth of Dairy Heifers. By C. H. Eckles and W. W. Swett. (Missouri Sta. Research Bul. 31, pp. 56, pl. 1, figs. 15.)
- ✓ Some Factors Favoring or Opposing Fruitfulness in Apples. By C. C. Wiggans. (Missouri Sta. Research Bul. 32, pp. 60, pls. 4, fig. 1.)
- Sixteenth Annual Report of the State Entomologist of Montana. By R. A. Cooley. (Montana Sta. Bul. 126, pp. 21-44, fig. 1.)
- Fifth Annual Report of the Montana Grain Inspection Laboratory. By A. Atkinson, E. W. Jahnke, and C. R. Haller. (Montana Sta. Bul. 127, pp. 45-59, figs. 8.)
- Coal Stove Brooder and Colony Brooder House. By W. F. Schoppe. (Montana Sta. Circ. 80, pp. 33-46, figs. 2.)
- Dry Farm Crop Rotations and Cultural Methods. By A. Atkinson and L. F. Giesecker. (Montana Sta. Circ. 81, pp. 49-58.)
- Farm Pastures in Montana. By A. Atkinson. (Montana Sta. Circ. 82, pp. 61-67.)
- Spring Grains in Western Nebraska, By L. L. Zook. (Nebraska Sta. Bul. 172, pp. 16, figs. 4.)
- ✓ Analysis of Feeding Stuffs. By B. E. Curry and T. O. Smith. (New Hampshire Sta. Bul. 187, pp. 20.)





- Results of Seed Tests for 1918. By F. W. Taylor. (New Hampshire Sta. Bul. 188, pp. 15.)
- Analysis of Fertilizers for 1918. By E. E. Curry and T. O. Smith. (New Hampshire Sta. Bul. 189, pp. 10.)
- Sod, Tillage and Fertilizers for the Apple Orchard. By J. H. Gourley. (New Hampshire Sta. Bul. 190, pp. 40, figs. 6.)
- Analyses of Commercial Fertilizers, Fertilizer Supplies and Home Mixtures. By C. S. Cathcart. (New Jersey Stas. Bul. 331, pp. 47.)
- Analyses of Commercial Fertilizers and Ground Bone; Analyses of Agricultural Lime. By C. S. Cathcart. (New Jersey Stas. Bul. 334, pp. 42.)
- Fertilizer Registrations for 1919. By C. S. Cathcart. (New Jersey Stas. Bul. 335, pp. 36.)
- Report of the Second (Yearling) Year of the Vineland International Egg Laying and Breeding Contest. By R. R. Hannas. (New Jersey Stas. Hints to Poultrymen, 7 (1919), No. 4, pp. 4.)
- Lessons to be Learned by Keeping Records. By V. G. Aubry. (New Jersey Stas. Hints to Poultrymen, 7 (1919), No. 5, pp. 4.)
- The Incubator Egg. By R. R. Hannas. (New Jersey Stas. Hints to Poultrymen, 7 (1919), No. 6, pp. 4.)
- Protective Feeds for Poultry. By H. R. Lewis. (New Jersey Stas. Hints to Poultrymen, 7 (1919), No. 7, pp. 4.)
- Twenty-ninth Annual Report, 1918. (New Mexico Sta. Ann. Rpt., 1918, pp. 73, figs. 9.)
- The Effect of Manganese Compounds on Soils and Plants. By E. P. Deatrick. (New York Cornell Sta. Memoir 19, pp. 365-402.)
- ✓ Farmers' Market Bulletin. (North Carolina Station Farmers' Market Bul., 6 (1919), No. 26, pp. 7.)
- ✓ Special Bulletins Food Department. (North Dakota Sta. Spec. Food Buls., 5 (1919), No. 8, pp. 177-190; No. 9, pp. 191-218, figs. 3.)
- Twenty-eighth Annual Report, 1917. (North Dakota Sta. Ann. Rpt., 1917, pp. 27, figs. 7.)
- ✓ A Study of the Cyanogenesis in Sorghum vulgare. By C. T. Dowell. (Oklahoma Sta. Bul. 122, pp. 8.)
- Pollination of Tomatoes. By A. G. B. Bouquet. (Oregon Sta. Bul. 158, pp. 29, figs. 5.)
- Fertilizer Tests for Strawberries. By G. G. Brown. (Oregon Sta. Bul. 159, pp. 40, figs. 4.)
- The Potato Wart Disease. By C. R. Orton and F. D. Kern. (Pennsylvania Sta. Bul. 156, pp. 16, figs. 5.)



- I. Cost of Burning Lime in the Stack. By W. Frear and C. L. Goodling.  
II. Supplementary Report upon the Limestone Resources of Pennsylvania. By W. Frear and C. A. Kern. (Pennsylvania Sta. Bul. 157, pp. 23, figs. 5.)
- Vanilla: A Promising New Crop for Porto Rico. By T. B. McClelland. (Porto Rico Sta. Bul. 26, pp. 32, pls. 3, figs. 4.)
- Bean Rust. By F. D. Fromme and S. A. Wingard. (Virginia Sta. Bul. 220, pp. 18, figs. 12.)
- Sugar Beets under Irrigation in Washington. By F. J. Sievers and E. G. Schafer. (Washington Sta. Bul. 154, pp. 41, figs. 11.) 50-70
- Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Western Washington Sta. Mo. Bul., 7 (1919), No. 1, pp. 20, figs. 11.)
- Infection and Immunity in Apple Rust. By N. J. Giddings. (West Virginia Sta. Bul. 170, pp. 71, figs. 50.)
- Gapes in Chickens. By H. Atwood and C. A. Lueder. (West Virginia Sta. Circ. 30, pp. 4.)
- War Prices and Farm Profits. By H. C. Taylor and S. W. Mendum. Wisconsin Sta. Bul. 300, pp. 17, figs. 10.)
- Wisconsin Wins: Annual Report of the Agricultural Extension Service for 1917-18. By H. L. Russell and K. L. Hatch. (Wisconsin Sta. Bul. 301, pp. 24, figs. 22.)
- Farm Tenancy. By C. J. Galpin and Emily F. Hoag. (Wisconsin Sta. Research Bul. 44, pp. 18, fig. 1.)





UNITED STATES DEPARTMENT OF AGRICULTURE,  
STATES RELATIONS SERVICE,  
A. C. TRUE, DIRECTOR.



LIST OF STATION PUBLICATIONS RECEIVED BY THE OFFICE OF  
EXPERIMENT STATIONS DURING MAY, 1919.

NOTE.--The station publications noted in this list are not distributed by the Department of Agriculture but can usually be obtained, as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

- Results of Fertilizer Experiments in Arkansas. By D.F. Hungerford. (Arkansas Sta. Bul. 155, pp. 27, figs. 4.)
- Varieties of Cotton, 1918. By W.E. Ayres. (Arkansas Sta. Bul. 159, pp. 16, fig. 1.)
- Cultural Experiments with Cotton, 1918. By W.E. Ayres. (Arkansas Sta. Bul. 161, pp. 14, pl. 1, figs. 4.)
- Almond Pollination. By W.P. Tufts. (California Sta. Bul. 306, pp. 335-366, figs. 15.)
- Salvaging Rain-Damaged Prunes. By W.V. Cruess. (California Sta. Circ. 212, pp. 11, figs. 3.)
- Evaporators for Prune Drying. By W.V. Cruess. (California Sta. Circ. 213, pp. 20, figs. 18.)
- Thirty-First Annual Report, 1918. (Colorado Sta. Rpt. 1918, pp. 47.)
- Report of the Connecticut Agricultural Experiment Station, New Haven, Conn., on Food Products and Drugs, 1918. By E.M. Pailey. (Connecticut State Sta. Bul. 210, pp. 172-242.)
- Eighteenth Report of the State Entomologist for 1918. By W.E. Britton. (Connecticut State Sta. Bul. 211, pp. 245-352, pls. 16, figs. 7.)
- Report on Commercial Feeding Stuffs, 1918. By E.M. Pailey. (Connecticut State Sta. Bul. 212, pp. 353-395.)
- Report of the Hawaii Agricultural Experiment Station, 1918. (Hawaii Fed. Sta. Rpt. 1918, pp. 55, pls. 11.) A limited number of copies of this publication is available for free distribution by the Department of Agriculture.
- An Apple Canker Due to Cytospora. By F.L. Stevens. (Illinois Sta. Bul. 217, pp. 365-379, pl. 1, figs. 6.)
- The Pruning of Winter-Injured Peach Trees. By A.J. Gunderson. (Illinois Sta. Bul. 218, pp. 381-394, figs. 13.)
- Food Values and Dairy Products. By O.R. Overman. (Illinois Sta. Circ. 235, pp. 38, fig. 1.)





- Thirty-First Annual Report, 1918. (Illinois Sta. Rpt. 1918, pp. 20.)
- Report of Stallion Enrollment Work for the Year 1918 with Lists of Stallions and Jacks Enrolled. By H.E. McCartney. (Indiana Sta. Circ. 86, pp. 104.)
- Grasshopper Control in Indiana. By J.J. Davis. (Indiana Sta. Circ. 88, pp. 8, figs. 9.)
- The Washed Lands of Indiana: A Preliminary Study. By M.L. Fisher. (Indiana Sta. Circ. 90, pp. 24, figs. 18.)
- Soiling Crops for Milk Production. By L.S. Gillette, A.C. McCandlish and H.H. Kildee. (Iowa Sta. Bul. 187, pp. 29-59.)
- Influence of Environment and Breeding in Increasing Dairy Production-II. By A.C. McCandlish, L.S. Gillette, and H.H. Kildee. (Iowa Sta. Bul. 188, pp. 61-88, figs. 27.)
- The Meadow Plant Bug. By H. Osborn. (Maine Sta. Bul. 276, pp. 16, pl. 1, figs. 5.)
- Potato Studies. By C.D. Woods. (Maine Sta. Bul. 277, pp. 15-32.)
- Soil Test Experiment in 1918. By C.D. Woods. (Maine Sta. Bul. 278, pp. 31-56, figs. 3.)
- Drugs and Foods. By C.D. Woods. (Maine Sta. Off. Insp. 91, pp. 20.)
- How to Control Potato Enemies. (Maine Sta. Doc. 535, pp. 16, fig. 1.)
- Fertilizer Experiments with Tobacco. By W.W. Garner and D.E. Brown. (Maryland Sta. Bul. 225, pp. 155-186, figs. 4.)
- How to Caponize. By R.H. Waite. (Maryland Sta. Bul. 226, pp. 183-194, figs. 22.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.F. Ostrander and A.L. Chandler. (Massachusetts Sta. Met. Bul. 364, pp. 4.)
- Fertilizer Analyses. By A.J. Patten, C.F. Barnum, E.F. Berger, A.L. Lewis and M.L. Crettenberger. (Michigan Sta. Bul. 283, pp. 48.)
- The Quarterly Bulletin. (Michigan Quart. Bul. 1(1919), No. 3, pp. 87-147, figs. 14.)
- Feeding Value of Skim Milk for Swine. By H.W. Norton, Jr. (Michigan Sta. Spec. Bul. 92, pp. 9.)
- Theory and Practice Outline for Fruit Growers. By H.J. Eustace and R.H. Pettit. (Michigan Sta. Spec. Bul. 93, pp. 32, figs. 6.)
- The Financial History of a Twelve-Year Old Peach Orchard. By H.J. Eustace and F.M. Gorden. (Michigan Sta. Spec. Bul. 94, pp. 14, fig. 1.)
- Watermelon Culture in Michigan. By C.W. Waid. (Michigan Sta. Spec. Bul. 95, pp. 13, figs. 10.)
- Planting the Rural School Grounds. By C.P. Halligan. (Michigan Sta. Circ. 96, pp. 4.)



- Raspberry Culture. By R.E. Loree. (Michigan Sta. Circ. 37, pp. 16, figs. 15.)
- The Culture of Currants and Gooseberries. By R.E. Loree. (Michigan Sta. Circ. 38, pp. 18, figs. 9.)
- Farm Tenancy and Leases. By A.H. Benton. (Minnesota Sta. Bul. 178, pp. 33, figs. 2.)
- ✓ The Cost of Producing Minnesota Field Crops, 1913-1917. By F.W. Peck. (Minnesota Sta. Bul. 179, pp. 42, figs. 4.)
- Experiences of Northern Minnesota Settlers. By F.W. Peck. (Minnesota Sta. Bul. 180, pp. 43, figs. 10.)
- ✓ Winter Rations for Dairy Heifers. By C.H. Eckles. (Missouri Sta. Bul. 158, pp. 54 figs. 16.)
- Annual Report, 1918. (Nevada Sta. Rpt. 1918, pp. 53, figs. 8.)
- The Poultryman's Parasite Problem. By W.C. Thompson. (New Jersey Stas. Hints to Poultrymen, 7(1919), No. 8, pp. 4.)
- Feed Consumed in Milk Production. By H. A. Hopper, H.M. Bowen and F.S. Barlow. (New York Cornell Sta. Bul. 398, pp. 15.)
- ✓ Insects Injurious to the Hop in New York with Special Reference to the Hop Grub and the Hop Redbug. By I.M. Hawley. (New York Cornell Sta. Memoir 15, pp. 141-324, figs. 61.)
- The Physiological Action of Nitrobenzene Vapor On Animals. By W.L. Chandler. (New York Cornell Sta. Memoir 20, pp. 405-472, pl. 1.)
- ✓ Studies in the Reversibility of the Colloidal Condition of Soils. By A.B. Beaumont. (New York Cornell Sta. Memoir 21, pp. 473-524.)
- Monthly Bulletins of the Ohio Agricultural Experiment Station. (Ohio Sta. Mo. Buls. 4(1919), No. 4, pp. 97-135, figs. 19; No. 5, pp. 137-167, figs. 14.)
- Experimentos Sobre el Supuesto Deterioro de Diferentes Legumbres en Puerto Rico, con Indicaciones para la Preservación de la Semilla. By C.F. Kirman and T.B. McClelland. (Porto Rico Federal Station Bul. 20, Spanish Ed., pp. 32, figs. 11.)
- The Influence of Crop Plants on Those Which Follow, II. By B.L. Hartwell, F.R. Lember and G.E. Merkle. (Rhode Island Sta. Bul. 176, pp. 47, figs. 7.)
- The Angular Leaf Spot of Cotton. By R.C. Faulwetter. (South Carolina Sta. Bul. 198, pp. 30, pls. 11.)
- Annual Report, 1918. (South Dakota Sta. Rpt. 1918, pp. 27.)
- Thirtieth and Thirty-First Annual Reports, 1917, 1918. (Texas Sta. Rpts. 1917-18, pp. 40, pl. 1.)
- Progress Report, Substation No. 11, Nacogdoches, Texas, 1909-1915. By G.T. McNess. (Texas Sta. Bul. 237, pp. 37, figs. 4.)



- Dairy Cattle Feeding Experiments. By P.V. Ewing, J.W. Ridgway, and W.A. Jones. (Texas Sta. Bul. 238, pp. 14.)
- Control of Weeds in Rice Fields. By H.H. Laude. (Texas Sta. Bul. 239, pp. 11, figs. 2.)
- The Utilization of Yucca for the Maintenance of Cattle. By J.M. Jones and A.B. Conner. (Texas Sta. Bul. 240, pp. 23, figs. 9.)
- The Climate of Utah. By F.L. West and N.E. Edlefsen. (Utah Sta. Bul. 166, pp. 66, figs. 56.)
- The Irrigation of Oats. By F.S. Harris and D.W. Pittman. (Utah Sta. Bul. 167, pp. 20, figs. 15.)
- A Study of the Frustum Form Factors of Hard Maple and Yellow Birch. By B.A. Chandler. (Vermont Sta. Bul. 210, pp. 38, figs. 7.)
- Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Western Washington Sta. Mo. Bul. 7(1919), No. 2, pp. 21-36, figs. 3.)
- A Study of the Factors Governing the Efficiency of Distribution and Rate of Discharge of Spray Nozzles. By H.L. Crane. (West Virginia Sta. Tech. Bul. 169, pp. 65, figs. 24.)
- Sandy Soils and How to Farm Them. By A.R. Whitson and H.W. Ullsperger. (Wisconsin Sta. Bul. 299, pp. 26, figs. 9.)







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STATES RELATIONS SERVICE,  
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LIST OF STATION PUBLICATIONS RECEIVED BY THE OFFICE  
OF EXPERIMENT STATIONS DURING JUNE, 1919.



NOTE.--The Station publications noted in this list are not distributed by the Department of Agriculture, but can usually be obtained, as far as the supply will permit, by applying to the Stations issuing them. An address list of the Stations will be furnished upon request.

Local Fertilizer Experiments with Cotton in South Alabama, 1914-1918, Inclusive. By J.T. Williamson and J.F. Duggar. (Alabama Sta. Bul. 207, pp. 151-240.)

Annual Report of the Director of the Experiment Station on Work Done under the Local Experiment Law in 1918. By J.F. Duggar. (Alabama Sta. Circ. 40, pp. 54.)

Late Planted Variety Tests of Corn. By E.F. Cauthen. (Alabama Sta. Circ. 41, pp. 4.)

Machine-Made Cement Pipe for Irrigation Systems and Other Purposes. By G.E.P. Smith. (Arizona Sta. Bul. 86, pp. 65-171, figs. 42.)

Pollination of the Bartlett Pear. By W.P. Tufts. (California Sta. Bul. 307, pp. 367-390, figs. 8.)

Work and Progress of the Agricultural Experiment Station for the Year Ended December 31, 1918. (Idaho Sta. Bul. 113, pp. 46.)

Swine Management in Idaho. By O.E. McConnell. (Idaho Sta. Bul. 116, pp. 35, figs. 14.)

Pure Seed Law and the Weed Control Act. By P. Wenger. (Idaho Sta. Circ. 8, pp. 12.)

Third Biennial Report, State Seed Commissioner, 1918. By R.J. Leth. (Idaho Sta. [Pub.], 1918, pp. 12, figs. 2.)

Black Spot of Onion Sets. By F.L. Stevens and E.Y. True. (Illinois Sta. Bul. 220, pp. 505-532, figs. 19.)

How to Increase Indiana Corn Yields. By A.T. Wiancko. (Indiana Sta. Circ. 91 pp. 20, figs. 10.)

Commercial Fertilizers for Indiana: What to Use. By A.T. Wiancko. (Indiana Sta. Circ. 92, pp. 8, figs. 2.)

A Bacteriological Study of the Method of Pasteurizing and Homogenizing the Ice Cream Mix. By B.W. Hammer and L.R. Sanders. (Iowa Sta. Bul. 186, pp. 17-26)

The Effect of Crown Gall upon a Young Apple Orchard. By L. Greene and H.E. Melhus. (Iowa Sta. Res. Bul. 50, pp. 145-176, figs. 30.)



Injury From White Grubs in Iowa. By E.D. Ball and E.V. Walter. (Iowa Sta. Circ. 60, pp. 4, figs. 2.)

Analyses of Inspection Samples of Fertilizers, 1917. By J.T. Willard, C.O. Swanson, and R.C. Wiley. (Kansas Sta. Insp. Circ. 7, pp. 16.)

The Color of Sugar Cane Products and Decolorization in Factory Practice. By F.W. Zerban and E.C. Freeland. (Louisiana Bul. 165, pp. 32, figs. 3.)

I.--The Composition, Digestibility and Feeding Value of Alfalfa. II.--The Value of Corn Bran for Milk Production. By J.B. Lindsey and C.L. Beals. (Massachusetts Sta. Bul. 186, pp. 153.)

Clarification of Milk, I. By C.E. Marshall, E.G. Hood, et al. (Massachusetts Sta. Bul. 187, pp. 151-242, figs. 10.)

The Nutrition of the Horse. By J.B. Lindsey. (Massachusetts Sta. Bul. 128, pp. 239-263.)

Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and A.L. Chandler. (Massachusetts Sta. Met. Bul. 365, pp. 4.)

The Quarterly Bulletin. (Michigan Sta. Quart. Bul. 1(1919), No. 4, pp. 148-195, figs. 18.)

Farm Types in Nebraska, As Determined by Climatic, Soil, and Economic Factors. By R.R. Spafford. (Nebraska Sta. Res. Bul. 15, pp. 85, figs. 38.)

Thirty-Second Annual Report. (Nebraska Sta. Rpt. 1919, pp. 44.)

Pruning Experiments With Peaches; Results of First Two Seasons. By M.A. Blake and C.H. Connors. (New Jersey Stas. Bul. 326, pp. 83, figs. 55.)

Some Studies on the Eggs of Important Apple Plant Lice. By A. Peterson. (New Jersey Stas. Bul. 332, pp. 63, figs. 4.)

Vegetable Plant Lice. By T.J. Headlee. (New Jersey Stas. Circ. 107, pp. 21, figs. 16.)

Cabbage Culture. By J.W. Rigney. (New Mexico Sta. Bul. 118, pp. 25, figs. 8.)

An Analysis of the Costs of Growing Potatoes. By D.S. Fox. (New York Cornell Sta. Memoir 22, pp. 525-627, figs. 17.)

Milking Machines: III.--As a Source of Bacteria in Milk; IV.--Methods of Maintaining in a Bacteria-Free Condition. By G.L.A. Ruehle, R.S. Breed, and G.A. Smith. (New York State Sta. Bul. 450, pp. 111-181, figs. 11.)

Leaf-Hoppers Injurious to Apple Trees. By F.H. Lathrop. (New York State Sta. Bul. 451, pp. 183-200, pls. 4, figs. 2.)

Leaf-Hoppers Injurious to Apple Trees. By F.H. Lathrop. (New York State Sta. Pop. Bul. 451, pp. 6.)

Report of Analyses of Samples of Commercial Fertilizers Collected by the Commissioner of Agriculture during 1918. (New York State Sta. Bul. 452, pp. 201-253.)





- Analyses of Insecticides and Fungicides. (New York State Sta. Bul. 454, pp. 15.)
- Questions Concerning the Control of a City Milk Supply Answered. By R.S. Breed. (New York State Sta. Bul. 456, pp. 10.)
- Director's Report for 1918. By W.H. Jordan. (New York State Sta. Bul. 457, pp. 25.)
- A Test of Commercial Fertilizers for Grapes. By F.E. Gladwin. (New York State Sta. Bul. 458, pp. 25-43.)
- Missing Hills in Potato Fields: Their Effect upon the Yield. By F.C. Stewart. (New York State Sta. Bul. 459, pp. 43-69, fig. 1.)
- Studies Relating to Milk: I.--The Preparation of Pure Casein; II.--A Method for Making Electrometric Titrations of Milk and Other Solutions Containing Proteins; III.--Free Lactic Acid in Sour Milk. By L.L. Van Slyke and J.C. Baker. (New York State Sta. Tech. Bul. 65, pp. 54, figs. 4.)
- Cooperative Live Stock Marketing. By C.S. Jones. (North Carolina Sta. Farmers' Market Bul. 6(1919), No. 28, pp. 24, fig. 1.)
- New Labor Saving Machinery for Harvesting Grain. By W.R. Porter. (North Dakota Sta. Bul. 128, pp. 13, figs. 18.)
- Terrenos Productivos e Improductivos de Cafe. By T.B. McClelland. (Porto Rico Sta. Bul. 21, pp. 15, pls. 2, figs. 5.)
- Efecto de Diferentes Metodos de Trasplantar Cafe. By T.B. McClelland. (Porto Rico Sta. Bul. 22, pp. 12, pl. 1.)
- Apple Blotch, A Serious Fruit Disease. By A.D. Selby. (Ohio Sta. Bul. 333, pp. 486-505, figs. 5.)
- Dairy Production in Ohio. By R.I. Grady and M.O. Bugby. (Ohio Sta. Bul. 334, pp. 505-541, figs. 6.)
- Effect of Age of Pigs on the Rate and Economy of Gains. By W.L. Robison. (Ohio Sta. Bul. 335, pp. 541-575, figs. 11.)
- Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (West. Washington Sta. Mo. Bul. 7(1919), No. 3, pp. 37-52, figs. 3.)
- Twenty-Eighth Annual Report. (Wyoming Sta. Rpt. (1918), pp. 65-128.)





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LIST OF STATION PUBLICATIONS RECEIVED BY THE OFFICE OF

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NOTE.--The station publications noted in this list are not distributed by the Department of Agriculture, but can usually be obtained, as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

Tick Eradication Laws.--Regulations of the Board of Control with Notes on These Laws and Regulations. By R.M. Gow. (Arkansas Sta. Bul. 160, pp. 16.)

Cover Crops in the Peach Orchard. By C.A. McCue. (Delaware Sta. Bul. 120, pp. 31, fig. 1.)

Florida Truck and Garden Insects. By J.R. Watson. (Florida Sta. Bul. 151, pp. 111-211, figs. 56.)

Annual Report, 1918. (Florida Sta. Rpt. 1918, pp. 93R + VI, figs. 16.)

Illinois Crop Yields from Soil Experiment Fields. By C.G. Hopkins, et al. (Illinois Sta. Bul. 219, pp. 395-503.)

Commercial Feeding Stuffs. By E.G. Proulx, et al. (Indiana Sta. Bul. 228, pp. 170, fig. 1.)

The Deterioration of Cane Sugar by Fungi. By N. Kopeloff and L. Kopeloff. (Louisiana Sta. Bul. 166, pp. 72, figs. 3.)

Studies on the Preparation of Vegetable Decolorizing Carbons for the Cane Sugar Industry. By F.W. Zurban, et al. (Louisiana Sta. Bul. 167, pp. 44.)

Anthrax: Transmission of Infection by Non-biting Flies. By H. Morris. (Louisiana Sta. Bul. 168, pp. 12.)

The European Corn Borer and Its Control. By S.C. Vinal and D.J. Caffrey. (Massachusetts Sta. Bul. 189, pp. 71, figs. 3.)

Metecrological Observations at the Massachusetts Agricultural Experiment Station. By J.F. Ostrander and G.A. Smith. (Massachusetts Sta. Met. Bul. 366, pp. 4.)

Infectious Abortion and Sterility in Cattle. By E.T. Hallman. (Michigan Sta. Circ. 40, pp. 7.)

Alfalfa in Michigan. By J.F. Cox. (Michigan Sta. Spec. Bul. 97, pp. 16, figs. 7.)

Some Information and Suggestions Concerning the Use of Phosphorus. By H.M. McCool, et al. (Michigan Sta. Pop. Bul. 284, pp. 30, figs. 21.)

Scal Brood.--Supplement to Special Bulletins 59 and 64. By E.F. Kindig. (Michigan Sta. Circ. 39, pp. 4.)



- ✓ Special Report North Central Experiment Station Grand Rapids 1904-1914.--  
Dairying and General Farming for the Timbered Section. By A.J. McGuire.  
(Minnesota Sta. Rpt. 66/ 37, figs. 19.)
- Raising Calves on Farms where Whole Milk is Sold. By W.W. Swett. (Missouri Sta.  
Circ. 88, pp. 13, fig. 1.)
- Combining Dormant and First Summer Spray in Apple Orchards Infested by San José  
Scale. By T.J. Talbert. (Missouri Sta. Bul. 161, pp. 15, figs. 3.)
- Legumes, Sudan Grass and Cereal Crops for Silage. By C.H. Eckles. (Missouri Sta.  
Bul. 162, pp. 25, fig. 1.)
- Soil Inoculation for Legumes. By W.A. Albrecht. (Missouri Sta. Circ. 86, pp. 15,  
figs. 6.)
- Growing Tomatoes for the Canning Factory. By J.T. Rosa, Jr. (Missouri Sta. Circ.  
87, pp. 16, figs. 4.)
- ✓ Outline of Object and Plan of the Nebraska National Egg Laying Contest. (Nebraska  
Sta. Circ. 7, pp. 4.)
- ✓ Potato Seed Certification in New Hampshire. By F.S. Prince. (New Hampshire Sta.  
Circ. 19, pp. 10.)
- ✓ How to Prevent Loss in Market Eggs. By G.H. Pound. (New Jersey Stas. Hint#  
to Poultrymen 7(1919), No. 9, pp. 4.)
- ✓ Artificial Illumination of Poultry Houses to Increase Fall and Winter Egg  
Production. By V.G. Aubry. (New Jersey Stas. Hints to Poultrymen 7(1919), No.  
10, pp. 4.)
- ✓ The Peach Twig Borer (*Anarsia lineatella* Zell). By D.E. Merrill. (New Mexico Sta.  
Bul. 116, pp. 15, figs. 10.)
- ✓ Poultry Feeding Experiment. By R.B. Thompson. (New Mexico Sta. Bul. 117, pp. 22,  
figs. 7.)
- ✓ Soybeans and Cowpeas for North Carolina. By V.R. Herman. (North Carolina Sta.  
Bul. 241, pp. 40, figs. 12.)
- ✓ Clover Stem Rot. By F.A. Wolf and R.O. Cromwell. (North Carolina Sta. Tech.  
Bul. 16, pp. 18, pls. 3.)
- Live Stock and Seed Special.--Farmers' Market Bulletin. By W.R. Camp, et al.  
(North Carolina Sta. Farmers' Market Bul. 6(1919), No. 27, pp. 24.)
- ✓ Ohio Monthly Bulletins. (Ohio Sta. Mo. Buls. 4(1919), No. 6, pp. 169-199, figs.  
19; 4(1919), No. 7, pp. 201-231, figs. 13.)
- ✓ An Economic Study of the Gas Tractor in Pennsylvania. By D.S. Fox. (Pennsyl-  
vanis Sta. Bul. 158, pp. 20, figs. 5.)
- ✓ The Value of Sodium when Potassium is Insufficient. By B.L. Hartwell and C.C.





Damon. (Rhode Island Sta. Bul. 177, pp. 29, fig. 1.)

✓ A Five-year Rotation of Potatoes, Rye Straw and Squashes, Onions, Oats and Rowen, and Hay. By S.C. Damon. (Rhode Island Sta. Bul. 178, pp. 15.)

✓ Inspection of Commercial Feeds. By P.H. Wessels. (Rhode Island Sta. Annual Feed Bul., pp. 12.)

Corn Silage for Beef Production. By J.W. Wilson and B.L. Thompson. (South Dakota Sta. Bul. 182, pp. 12.)

Barley Culture in South Dakota. By M. Champlin, et al. (South Dakota Sta. Bul. 183, pp. 69, figs. 14.)

✓ Pruning and Spraying the Home Orchard and Vineyard. By G.W. Bentley. (Tennessee Sta. Bul. 121, pp. 17-47, figs. 51.)

A Comparison of Azotobacter with Yeasts. By M. Mulvania. (Tennessee Sta. Bul. 122, pp. 6.)

✓ The Feed Control Law with Special Advice to Dealers and Distributors of Commercial Feeding Stuffs in Texas. By F.D. Fuller. (Texas Sta. Control Circ. A, pp. 14, figs. 2.)

Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Western Washington Sta. Mo. Bul. 7(1919), No. 4, pp. 53-64, fig. 1.)

The Chemical Examination of Three Species of Larkspurs. By O.A. Beath. (Wyoming Sta. Bul. 120, pp. 53-88, figs. 16.)

Swamp Fever in Wyoming. By J.W. Scott. (Wyoming Sta. Bul. 121, pp. 90-140, figs. 22.)





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LIST OF STATION PUBLICATIONS RECEIVED BY THE OFFICE OF  
EXPERIMENT STATIONS DURING AUGUST, 1919.

NOTE.--The station publications noted in this list are not distributed by the Department of Agriculture, but can usually be obtained, as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

- The Influence of Age of Hens on Egg Production. By H.E. Dvorachek and S.R. Stout. (Arkansas Sta. Bul. 163, pp. 8.)
- Silos and Silage in Arkansas. By H.E. Dvorachek. (Arkansas Sta. Bul. 164, pp. 16.)
- I.--Fumigation with Liquid Hydrocyanic Acid. By H.J. Quayle. II.--Physical and Chemical Properties of Liquid Hydrocyanic Acid. By G.P. Gray and E.R. Hulbirt. (California Sta. Bul. 308, pp. 391-428, figs. 4.)
- The Carob in California. By I.J. Condit. Nutritive Value of the Carob Bean. By M.E. Jaffa and F.W. Albro. (California Sta. Bul. 509, pp. 429-452, figs. 8.)
- ✓ Outline Studies on the School Garden, Home Garden and Vegetable Growing Projects. By O.J. Kern. (California Sta. (Pub.), pp. 64, figs. 32.)
- ✓ Outlines of Course of Instruction in Agricultural Nature Study for the Rural Schools of California. By O.J. Kern. (California Sta. (Pub.), pp. 55, figs. 61.)
- Orchard Management. By E.P. Sandsten. (Colorado Sta. Bul. 250, pp. 20, figs. 10.)
- The Identification and Control of Colorado Weeds. By W.W. Robbins and B. Boyack. (Colorado Sta. Bul. 251, pp. 126, figs. 77.)
- Second Annual Report. By W.W. Robbins. (Colorado Sta. Seed Lab. Bul., 1(1918), No. 3, pp. 23, figs. 5.)
- Irrigation and the Protein Content of Wheat. By J.S. Jones, C.W. Colver, and H.P. Fishburn. (Idaho Sta. Bul. 109, pp. 43, figs. 11.)
- Snapdragon Rust. By G.L. Peltier. (Illinois Sta. Bul. 221, pp. 533-548, figs. 5.)
- Feeding Experiments with Leghorns. By A.G. Philips. (Indiana Sta. Bul. 227, pp. 28, figs. 7.)
- Commercial Fertilizers. By E.G. Proulx, et al. (Indiana Sta. Bul. 229, pp. 94, figs. 4.)
- Silo Construction. By C.K. Shedd and W.A. Foster. (Iowa Sta. Bul. 189, pp. 93-148 figs. 45.)
- The Variation of the Milk of Ayrshire Cows in Quantity and Fat Content of Their

- Milk. By R. Pearl and J.R. Miner. (Maine Sta. Bul. 279, pp. 55-64.)
- Appliances and Methods for Pedigree Poultry Breeding at the Maine Station. By J.W. Gowen. (Maine Sta. Bul. 280, pp. 63-88, figs. 13.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and G.A. Smith. (Massachusetts Sta. Met. Bul. 367, pp. 4)
- Citrus Fruit Rinds as a Hog Feed. By R.S. Allen. (Maryland Sta. Bul. 227, pp. 191-202.)
- Quarterly Bulletin of the Michigan Agricultural Experiment Station. (Michigan Sta. Quart. Bul., 2(1919), No. 1, pp. 55, figs. 20.)
- Analyses of Insecticides and Fungicides. By A.J. Patten and E.F. Berger. (Michigan Sta. Spec. Bul. 96, pp. 18.)
- ✓ Studies upon the Bacterial Flora of Samples of Milk with High Cellular Counts as Drawn from Apparently Normal Udders. By L.H. Cooledge. (Michigan Sta. Tech. Bul. 41, pp. 901-910, figs. 1.)
- Rate and Extent of Solubility of Soils under Different Treatments and Conditions. By G.J. Bouyoucos. (Michigan Sta. Tech. Bul. 44, pp. 49, figs. 7.)
- Estimating Silo Capacities and Silage Weights. By C.H. Eckles. (Missouri Sta. Circ. 89, pp. 4.)
- Work and Progress of the Agricultural Experiment Station, 1917-18. By F.B. Mumford. (Missouri Sta. Bul. 163, pp. 78, figs. 21.)
- ✓ Crop Production in the Northern Sand Hills. By J. Cowan. (Nebraska Sta. Bul. 171, pp. 8.)
- The Inheritance of the Weak Awn in Certain Avena Crosses and Its Relation to Other Characters of the Cat Grain. By A.C. Fraser. (New York Cornell Sta. Memoir 23, pp. 629-676, figs. 6.)
- ✓ Forty-first Annual Report, 1918. (North Carolina Sta. Ann. Rpt. 1918, pp. 123, pls. 11, figs. 9.)
- ✓ The Tobacco Flea Beetle. By Z.P. Metcalf and G.W. Underhill. (North Carolina Sta. Bul. 239, pp. 47, figs. 34.)
- Special Bulletin Food Department. (North Dakota Sta. Spec. Food Bul., 5(1919), No. 10, pp. 219-263.)
- Special Bulletin Food Department. (North Dakota Sta. Spec. Food Bul., 5(1919), No. 11, pp. 242-257.)
- The Small Irrigation Pumping Plant. By W.L. Powers and W.J. Gilmore. (Oregon Sta. Bul. 160, pp. 16, figs. 4.)
- Potato Production. By G. Stewart. (Utah Sta. Circ. 40, pp. 54, figs. 20.)
- Greenhouse Tomato Growing in Virginia. By H.H. Zimmerley. (Virginia Truck Sta. Bul. 26, pp. 23, figs. 2.)

- ✓ The Life History and Biology of the Pink and Green Aphid (Macrosiphum solanifolii Ashmead). By L.B. Smith. (Virginia Truck Sta. Bul.27, pp. 25-79, figs. 9.)
- Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Western Washington Sta. Mo. Bul., 7(1919), No. 5, pp. 65-83, figs.6)
- Common Insecticides: Their Practical Value. By H. F. Wilson. (Wisconsin Sta. Bul. 303, pp. 15, figs. 5.)
- Root Crops. By T. S. Parsons and A. D.Faville. (Wyoming Sta. Circ.14, pp. 4.)





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LIST OF STATION PUBLICATIONS RECEIVED BY THE OFFICE OF

EXPERIMENT STATIONS DURING SEPTEMBER, 1919.

NOTE.--The station publications noted in this list are not distributed by the Department of Agriculture, but can usually be obtained, as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

A Bacterial Root-rot of Field Corn. By H.R. Rosen. (Arkansas Sta. Tech. Bul. 162, pp. 7, pls. 4.)

Egg Laying Contests. By L.E. Card and W.F. Kirkpatrick. (Connecticut Storrs Sta. Bul. 100, pp. 71, figs. 25.)

Bacillary White Diarrhea of Young Chicks, VII. Ovarian Infection of the Adult Fowl and Transmission of the Disease Through the Oviduct. By L.F. Rettger, W.F. Kirkpatrick, and L.E. Card. (Connecticut Storrs Sta. Bul. 101, pp. 73-88.)

Experiments in Calf Feeding: Corn Silage; Whole Milk Dilutions. By G.C. White and J.E. Kuelling. (Connecticut Storrs Sta. Bul. 102, pp. 89-136.)

Field Experiments in Spraying Apple Orchards for the Control of Apple Blotch. By A.J. Gunderson. (Illinois Sta. Bul. 222, pp. 549-575.)

Fifth Annual Report of the Creamery License Division, 1919. By O.E. Reed and T.H. Broughton. (Indiana Sta. Circ. 93, pp. 56, figs. 4.)

Farm Leases in Kansas. By W.E. Grimes. (Kansas Sta. Bul. 221, pp. 32, figs. 9.)

Safeguarding Feeders of Cottonseed Products. By L.A. Fitz and A.E. Langworthy. (Kansas Sta. Circ. 71, pp. 4, fig. 1.)

Winter Irrigation for Western Kansas. By G.S. Knapp. (Kansas Sta. Circ. 72, pp. 8, figs. 5.)

Establishing Kanred Wheat in Kansas. By S.C. Salmon. (Kansas Sta. Circ. 74, pp. 16, figs. 8.)

Blackleg and its control. By L.W. Goss. (Kansas Sta. Circ. 75, pp. 4.)

Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and G.A. Smith. (Massachusetts Sta. Met. Bul. 368, pp. 4.)

Thirty-first Annual Report of the Experiment Station of the Michigan Agricultural College, 1918. (Michigan Sta. Rpt. 1918, pp. 231-301, figs. 2.)

Studies on Fusarium Diseases of Potatoes and Truck Crops in Minnesota. By G.R. Bisby. (Minnesota Sta. Tech. Bul. 181, pp. 58, figs. 30.)



Breeding Small Grains in Minnesota. I.--Technic and Results with Wheat and Oats. By H. K. Hayes and R.J. Garber. II.--Barley Investigations. By H.V. Earlan and H. K. Hayes. (Minnesota Sta. Bul. 182, pp. 56, figs. 14.)

Capacities of Silos and Weights of Silage. By C.H. Eckles, O.E. Reed, and J.B. Fitch. (Missouri Sta. Bul. 164, pp. 24, figs. 2)

✓ Supplementary Feeds in Fattening Lambs. By H.J. Gramlich. (Nebraska Sta. Bul. 173, pp. 24, figs. 9.)

Irrigation of Field Crops in Nevada. By C.S. Knight and G. Hardman. (Nevada Sta. Bul. 96, pp. 42, figs. 20.)

Don't Feed Fox-tail Hay to Lambing Ewes. By C. E. Fleming and N. F. Peterson. (Nevada Sta. Bul. 97, pp. 18, figs. 13.)

✓ Seed and Soil Treatment for Vegetable Diseases. By M. T. Cook. (New Jersey Stas. Circ. 106, pp. 4, fig. 1.)

✓ Digest and Copy of Revised Fertilizer Law. (New Jersey Stas. Circ. 108, pp. 8.)

✓ Fall Poultry Problems. By H. R. Lewis. (New Jersey Stas. Hints to Poultrymen, 7(1919), No. 12, pp. 4.)

The Limits in Hybridization of Vitis Rotundifolia with Related Species and Genera. By L.R. Detjen. (North Carolina Sta. Tech. Bul. 17, pp. 25, figs. 3.)

Some F<sub>1</sub> Hybrids of Vitis Rotundifolia with Related Species and Genera. By L. R. Detjen. (North Carolina Sta. Tech. Bul. 18, pp. 50, figs. 33.)

Potato Experiments 1917 and 1918. By H.O. Werner. (North Dakota Sta. Bul. 129, pp. 22, figs. 3.)

Report of the Hettinger Sub-station for the years 1913-1918, inclusive. (North Dakota Sta. Bul. 130, pp. 56, figs. 6.)

Special Bulletin Food Department. (North Dakota Sta. Spec. Food Bul., 5(1919), No. 12, pp. 258-277.)

Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Western Washington Sta. Mo. Bul. 7(1919), No. 6, pp. 85-100, figs. 4.)

Stem Rust of Grains and the Barberry in Wisconsin. By A. G. Johnson and J. G. Dickson. (Wisconsin Sta. Bul. 304, pp. 16, figs. 11.)

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LIST OF STATION PUBLICATIONS RECEIVED BY THE OFFICE  
OF EXPERIMENT STATIONS DURING OCTOBER, 1919.

NOTE.--The station publications noted in this list are not distributed by the Department of Agriculture, but can usually be obtained, as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

Plum Pollination. By A.H. Hendrickson. (California Sta. Bul. 310, pp. 28, figs. 5.)

Investigations with Milking Machines. By F.W. Woll. (California Sta. Bul. 311, pp. 29-54, figs. 3.)

Maricout Barley.--With a Discussion of Barley Culture in California. By G.W. Hendry. (California Sta. Bul. 312, pp. 55-109, figs. 19.)

Seed Treatment for the Prevention of Cereal Smuts. By W.W. Mackie. (California Sta. Circ. 214, pp. 8.)

Feeding Dairy Cows in California. By F.W. Woll. (California Sta. Circ. 215, pp. 6.)

Report of the Guam Agricultural Experiment Station, 1918. (Guam Sta. Rpt. 1918, pp. 61, pls. 13.)

Carnation Stem Rot and Its Control. By G.L. Peltier. (Illinois Sta. Bul. 223, pp. 577-607, figs. 5.)

1919 Yields from Ten Wheat Fields in "Egypt". By C.G. Hopkins. (Illinois Sta. Bul. 236, p. 1.)  
Circ.

Some Economic Aspects of Fruit and Vegetable Storage. By J.W. Lloyd. (Illinois Sta. Circ. 237, pp. 8.)

Is Cooperative Marketing of Horticultural Products Applicable to Illinois Conditions? By J.W. Lloyd. (Illinois Sta. Circ. 238, pp. 7.)

✓ Apple-bud Selection.--Apple Seedlings from Selected Trees. By C.S. Crandall. (Illinois Sta. Bul. 211, Abs., pp. 4.)

✓ Limestone Action on Acid Soils. By R. Stewart and F.A. Wyatt. (Illinois Sta. Bul. 212, Abs., pp. 7.)

✓ A Study of the Relative Reliability of Official Tests of Dairy Cows. By V.W. Tapp. (Illinois Sta. Bul. 213, Abs., pp. 4, figs. 3.)

Commercial Feeding Stuffs.--Quarterly Report, January 1-March 31, 1919. By E.G. Proulx, et al. (Indiana Sta. Bul. 230, pp. 63.)

✓ Poultry Diseases. By L.D. Busnell and J.G. Jackley. (Kansas Sta. Circ. 70, pp. 21, fig. 1.)

- ✓ Growing Alfalfa in Western Kansas. By C.R. Weeks. (Kansas Sta. Circ. 73, pp. 10, figs. 4.)
- ✓ Commercial Feeding Stuffs, 1918-19. By C.D. Woods. (Maine Sta. Off. Insp. 92 pp. 21-60.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and G.A. Smith. (Massachusetts Sta. Met. Bul. 369, pp. 4.)
- ✓ An Act Relative to the Sale of Commercial Fertilizers, [Chap. 220, 1918]. (Massachusetts Sta. Circ. 32 A, pp. 2.)
- Commercial Feeding Stuffs. By A. J. Patten, et al. (Michigan Sta. Bul. 285, pp. 91.)
- ✓ The Use of Forage Crops in Pork Production. By C.N. Arnett and W.E. Joseph. (Montana Sta. Circ. 83, pp. 69-84, figs. 5.)
- ✓ Some Stock Ranch Accessories. By H.E. Murdock and H. Welch. (Montana Sta. Circ. 84, pp. 85-100, figs. 15.)
- ✓ Forage Crop Experiments with Swine. By C.N. Arnett and W.E. Joseph. (Montana Sta. Bul. 128, pp. 106, figs. 7.)
- ✓ Winter Feeding of Beef Cattle. By C.N. Arnett. (Montana Sta. Circ. 85, pp. 7.)
- ✓ Purebred Sires Effect Herd Improvement. By M.N. Lawritson, J.W. Hendrickson, and W.B. Nevens. (Nebraska Sta. Circ. 8, pp. 15, figs. 7.)
- Marketing Nebraska Potatoes. By J.O. Bankin. (Nebraska Sta. Circ. 9, pp. 32, figs. 16.)
- ✓ Cost of Raising Beef Cattle in New Hampshire. By E.G. Ritzman. (New Hampshire Sta. Bul. 182, pp. 15.) *group*
- ✓ Storage of Potatoes. By O. Butler. (New Hampshire Sta. Circ. 20, pp. 8, figs. 2.)
- The Chicken Pox, Roup and Canker Problem in New Jersey. By W.C. Thompson. (New Jersey Stas. Hints to Poultrymen 7(1919), No. 11, pp. 4.)
- ✓ Sorghums for Silage and Hay. By R.L. Stewart. (New Mexico Sta. Bul. 119, pp. 20, figs. 3.)
- ✓ A Study of the Plant Lice Injuring the Foliage and Fruit of the Apple. By R. Matheson. (New York Cornell Sta. Memoir 24, pp. 677-762, pls. 24, figs. 9.)
- ✓ Experiments for the Control of the Grape Root-worm. By F.Z. Hartzell. (New York State Sta. Bul. 453, pp. 253-332, pls. 10, figs. 6.)
- ✓ Inspection of Feeding Stuffs. By A.W. Clark. (New York State Sta. Bul. 453, pp. 15-186.)
- ✓ Reconstruction and the North Carolina Warehouse Act. By W.R. Camp. (North Carolina Sta. Farmers' Market Bulletin, 6(1919), No. 29, pp. 14.)
- Some Studies on the Nutritive Value of the Soy Bean in the Human Diet. By W.G.



✓ Bowers. (North Dakota Sta. Spec. Bul. Food Department, 5(1919), No. 13, pp. 276-328, figs. 4.)

Pear Harvesting and Storage Investigations in Rogue River Valley.--Second Report. By C.I. Lewis, A.E. Murneck and C.C. Cate. (Oregon Sta. Bul. 162, pp. 39, figs. 12.)

✓ Studies on Fowl Cholera: VI.--Immunization Against Bacillus avisepticus by Means of Inoculations with Killed Cultures of Virulent and Avirulent Strains. By P. Hadley. (Rhode Island Sta. Bul. 179, pp. 15.)

The Cicadellidae or Leaf-hoppers of South Carolina. By F.H. Lathrop. (South Carolina Sta. Bul. 199, pp. 119, figs. 51.)

Analyses of Commercial Fertilizers. By R.N. Brackett and H.M. Stackhouse. (South Carolina Sta. Bul. 200, pp. 62.)

Creosoting Fence Posts. By H. W. Barre. (South Carolina Sta. Bul. 201, pp. 13, figs. 2.)

✓ Yields from Two Systems of Corn Breeding. By A.N. Hume. (South Dakota Sta. Bul. 184, pp. 68-87.)

✓ Ice on the Farm. By C. Larsen. (South Dakota Sta. Bul. 185, pp. 86-109, figs. 15.)

Relative Resistance of Various Crops to Alkali. By F.S. Harris and D.W. Pittman. (Utah Sta. Bul. 168, pp. 23, figs. 70.)

✓ The Aerial Fertilization of Plants with Carbon Dioxid. By M. B. Cummings and C.H. Jones. (Vermont Sta. Bul. 211, pp. 56, figs. 4.)

Fertilizers and Their Relation to Crop Production in Virginia. By T.B. Hutcheson and T.K. Wolfe. (Virginia Sta. Bul. 221, pp. 74, figs. 15.)

The Nematode Disease of Wheat in Virginia. By F.D. Fromme. (Virginia Sta. Bul. 222, pp. 12, figs. 5.)

Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Western Washington Sta. Mo. Bul. 7(1919), No. 7, pp. 101-116, fig. 1.)





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LIST OF STATION PUBLICATIONS RECEIVED BY THE OFFICE OF EXPERIMENT

STATIONS DURING NOVEMBER, 1919.

NOTE.--The station publications noted in this list are not distributed by the Department of Agriculture, but can usually be obtained, as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

- ✓ Use and Waste of Irrigation Water. By G.E.P. Smith. (Arizona Sta. Bul. 88, pp. 205-224, figs. 10.)
- Pruning Young Deciduous Fruit Trees. By W.P. Tufts. (California Sta. Bul. 313, pp. 111-153, figs. 24.)
- Cow-testing Associations in California. By E.C. Voorhies. (California Sta. Bul. 314, pp. 155-193, figs. 10.)
- Bacteriological Results Obtained in Practice with Vat Pasteurization and with One of the Final Package Methods. By B.W. Hammer. (Iowa Sta. Bul. 190, pp. 149-158.)
- ✓ Appetite as a Guide in Feeding Dairy Calves. By A.C. McCandlish. (Iowa Sta. Res. Bul. 51, pp. 176-184.)
- Studies on Abnormal Evaporated Milk. By B.W. Hammer. (Iowa Sta. Res. Bul. 52, pp. 185-198.)
- Capacity of Silos and Weights of Silage. By C.H. Eckles, O.E. Reed and J.B. Fitch. (Kansas Sta. Bul. 222, pp. 22, figs. 2.)
- Home Preparation of Pork. By A.M. Paterson. (Kansas Sta. Circ. 76, pp. 15, figs. 8.)
- Growing Alfalfa in Maryland. By N. Schmitz. (Maryland Sta. Bul. 228, pp. 24, figs. 7.)
- Agricultural Seed Inspected in the Fall of 1918. By C.P. Smith. (Maryland Sta. Bul. 229, pp. 25-46.)
- Poultry Appliances and Methods. By R.H. Waite. (Maryland Sta. Bul. 230, pp. 47-62, figs. 29.)
- Field Damaged Wheat for Poultry. By R.H. Waite. (Maryland Sta. Bul. 231, pp. 61-66.)
- ✓ Commercial Fertilizers, 1919. By C.D. Woods. (Maine Sta. Off. Insp. 23, pp. 61-88.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and G.A. Smith. (Massachusetts Sta. Met. Bul. 370, pp. 4.)

Quarterly Bulletin of the Michigan Agricultural Experiment Station. (Michigan Sta. Quart. Bul., 2(1919), No. 2, pp. 56-102, figs. 18.)

Cotton Experiments, 1918. By H.B. Brown. (Mississippi Sta. Bul. 186, pp. 31, figs. 4.)

Cost of Producing Some Missouri Farm Crops. By O.R. Johnson and R.M. Green. (Missouri Sta. Bul. 165, pp. 26, figs. 10.)

Composition of the Beef Animal and Energy Cost of Fattening. By P.F. Trowbridge, C.R. Moulton, and L.D. Haigh. (Missouri Sta. Res. Bul. 30, pp. 106, pls. 12, figs. 26.)

The Preservation of Milk for Chemical Analysis. By L.S. Palmer. (Missouri Sta. Res. Bul. 34, pp. 31.)

Beef Production. By H.J. Gramlich. (Nebraska Sta. Bul. 174, pp. 22, figs. 6.)

Hens v. Pullets. By R.R. Hannas. (New Jersey Stas. Hints to Poultrymen, 8 (1918), No. 1, pp. 4.)

The Crane Flies of New York.--I, Distribution and Taxonomy of the Adult Flies. By C.P. Alexander. (New York Cornell Sta. Mem. 25, pp. 775-993, figs. 38.)

The Dry Root-rot of the Bean. By W.H. Burkholder. (New York Cornell Sta. Mem. 26, pp. 997-1033, pls. 2, figs. 3.)

Crop Rotation and Soil Fertility. By R.C. Doneghue. (North Dakota Sta. Bul. 126, pp. 195-251, figs. 13.)

Destructive Insects Affecting Ohio Shade and Forest Trees. By J.S. Houser. (Ohio Sta. Bul. 332, pp. 159-487, pls. 70.)

The Chicken Sticktight Flea. By C.E. Sanborn. (Oklahoma Sta. Bul. 123, pp. 8, figs. 3.)

Effect of Feeding Peanuts on the Quality of Pork. By C.T. Dowell and W.G. Friedemann. (Oklahoma Sta. Bul. 124, pp. 8.)

Comparative Rations for Wintering Breeding Ewes. By S.F. Russell. (Oklahoma Sta. Bul. 125, pp. 8, figs. 2.)

Dairy Farming in Southeastern Pennsylvania. By G.A. Billings. (Pennsylvania Sta. Bul. 159, pp. 42, figs. 16.)

Home Made, Steam Boiled, Lime Sulphur Wash. By J.A. Berly. (South Carolina Sta. Circ. 30, pp. 3, fig. 1.)

Corn Families of South Dakota. By A.N. Hume. (South Dakota Sta. Bul. 186, pp. 112-135, fig. 1.)

Cottonseed Meal. By F.D. Fuller and G.S. Fraps. (Texas Sta. Bul. 241, pp. 23.)

Hardening Peanut-fed Hogs. By L.B. Burk and P.V. Ewing. (Texas Sta. Bul. 242, pp. 14.)

The Need of Texas Soils for Lime. By G.S. Fraps. (Texas Sta. Bul. 243, pp. 18.)

Composition of the Soils of Archer, Franklin, and Harrison Counties. By G.S.

Fraps. (Texas Sta. Bul. 244, pp. 78.)

Feeding Values of Certain Feeding Stuffs. By G.S. Fraps. (Texas Sta. Bul. 245, pp. 29.)

Report of the First Texas National Egg Laying Contest. By F.W. Kazmeier. (Texas Sta. Bul. 246, pp. 22, figs. 7.)

The Use of Alkali Water for Irrigation. By F.S. Harris and N.I. Butt. (Utah Sta. Bul. 169, pp. 41, figs. 18.)

Monthly Bulletin of the Western Washington Agricultural Experiment Station, Puyallup, Wash. (Western Washington Sta. Mo. Bul. 7(1919), No. 8, pp. 118-132, fig. 1.)

Service to Wisconsin.--Annual Report of the Director of the Experiment Station for 1916-17 and 1917-18. By H.L. Russell and F.B. Morrison. (Wisconsin Sta. Bul. 302, pp. 70, figs. 25.)

The Common Cabbage Worm in Wisconsin, (Pontia ranae). By H.F. Wilson. (Wisconsin Sta. Res. Bul. 45, pp. 35, figs. 11.)

Frost Necrosis of Potato Tubers. By L.R. Jones, M. Miller and E. Bailey. (Wisconsin Sta. Res. Bul. 46, pp. 46, pl. 1, figs. 12.)

Simple Live Stock Remedies. By A.D. Faville and E.F. Lehnert. (Wyoming Sta. Circ. 13, pp. 4.)





UNITED STATES DEPARTMENT OF AGRICULTURE,  
STATES RELATIONS SERVICE,  
A.C. TRUE, DIRECTOR.

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LIST OF STATION PUBLICATIONS RECEIVED BY THE OFFICE OF  
EXPERIMENT STATIONS DURING DECEMBER, 1919.

NOTE.--The station publications noted in this list are not distributed by the Department of Agriculture, but can usually be obtained, as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

Insect Pests of Interest to Arizona Cotton Growers. By A.W. Morrill.  
(Arizona Sta. Bul. 87, pp. 167-205, figs. 33.)

The Yuma Mesa. By A.E. Vinson, F.J. Crider and G.E. Thompson. (Arizona Sta. Bul. 89, pp. 221-263, figs. 23.)

Commercial Fertilizers. By P.L. Hibbard. (California Sta. Bul. 315, pp. 195-227.)

The Kaki or Oriental Persimmon. By I.J. Condit. (California Sta. Bul. 316, pp. 229-266, figs. 20.)

Winter Injury or Die-back of the Walnut. By L.D. Batchelor and H.S. Reed.  
(California Sta. Circ. 216, pp. 20, figs. 14.)

Economy in Feeding the Family.--V, Condensed Milk, Malted Milk, and Milk Powder. By J.P. Street. (Connecticut State Sta. Bul. 213, pp. 397-407.)

Report of the Botanist, 1917-18. By G.P. Clinton. (Connecticut State Sta. Bul. 214, pp. 403-459, pls. 3.)

Preliminary Report on Root Rot in Hawaii (Lahaina Cane Deterioration, Pineapple Wilt, Taro Rot, Rice Root Rot, Banana Root Rot). By C.W. Carpenter. (Hawaii Sta. Press Bul. 54, pp. 8, pls. 8.)

Cattle Feeding Investigations, 1918-19. By C.W. McCampbell, F.W. Bell, and H.B. Winchester. (Kansas Sta. Circ. 77, pp. 11, fig. 1.)

Swine Feeding Investigations, 1918-19. By C.W. McCampbell, E.F. Ferrin, and H.B. Winchester. (Kansas Sta. Circ. 78, pp. 7.)

Lamb Feeding Investigations, 1919. By A.M. Paterson. (Kansas Sta. Circ. 79, pp. 4, fig. 1.)

Mushrooms. By T.H. White. (Maryland Sta. Bul. 232, pp. 65-85, figs. 2.)

Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and G.S. Smith. (Massachusetts Sta. Met. Bul. 371, pp. 4.)

Thirty-first Annual Report of the Massachusetts Agricultural Experiment Station. By F.W. Morse. (Massachusetts Sta. Pub. Doc. 31, pp. 56a-274, pls. 3, figs. 20.)



- First Generation Crosses Between Standard Minnesota Corn Varieties. By H.K. Hayes and P.J. Olson. (Minnesota Sta. Tech. Bul. 183, pp. 22, figs. 2.)
- Farmers' Cooperation in Minnesota, 1913-1917. By J.D. Black and F. Ebothka (Minnesota Sta. Bul. 184, pp. 62, figs. 3.)
- Cider- and Vinegar-making Qualities of Minnesota Apples. By W.G. Brierley. (Minnesota Sta. Bul. 185, pp. 34, figs. 6.)
- Cockroach Pests in Minnesota with Special Reference to the German Cockroach. By V.R. Haber. (Minnesota Sta. Bul. 186, pp. 16, figs. 7.)
- Dairy Barn and Milk House Arrangement. By J.H. Frandsen and W.B. Nevens. (Nebraska Sta. Circ. 6, pp. 28, figs. 20.)
- Judging Fowls for Egg Production. By H.R. Lewis. (New Jersey Stas. Hints to Poultrymen 8(1919), No. 2, pp. 4.)
- Missing Hills in Potato Fields: Their Effect Upon the Yield. By L.C. Collison and F.C. Stewart. (New York State Sta. Pop. Bul. 459, pp. 5, fig. 1.)
- Twenty Years of Fertilizers in an Apple Orchard. By U.P. Hedrick and R.D. Anthony. (New York State Sta. Bul. 460, pp. 69-96, fig. 1.)
- Control of Green Apple Aphis in Bearing Orchards. By H.E. Hodgkiss. (New York State Sta. Bul. 461, pp. 95-134, pls. 10.)
- Seed Tests Made at the Station During 1918.--I, Inspection of Agricultural Seeds. II, Voluntary Examinations for Correspondents. By M.T. Munn. (New York State Sta. Bul. 462, pp. 133-156.)
- Notes on New York Plant Diseases, II. By F.C. Stewart. (New York State Sta. Bul. 463, pp. 155-138, pls. 8.)
- An Experience in Crop Production. By W.H. Jordan and G.W. Churchill. (New York State Sta. Bul. 465, pp. 20.)
- Ammonification of Manure in Soil.--I, What Soil Organisms Take Part in the Ammonification of Manure? II, Taxonomic Study of Two Important Soil Ammonifiers. By J.W. Bright and H.J. Conn. (New York State Sta. Tech. Bul. 67, pp. 45.)
- Comparison of Methods for Computing Daily Mean Temperatures: Effect of Discrepancies Upon Investigations of Climatologists and Biologists. By F.Z. Hartzell. (New York State Sta. Tech. Bul. 68, pp. 35, pls. 2, figs. 19.)
- The Use of the Nitrate-reduction Test in Characterizing Bacteria. By H.J. Conn and R.S. Breed. (New York State Sta. Tech. Bul. 73, pp. 21.)
- The Influence of Low Temperature on Soil Bacteria. By A.F. Vass. (New York Cornell Sta. Mem. 27, pp. 1037-1070.)
- Cooperative Marketing in the Chautauqua-Erie Grape Industry. By H.D. Phillips. (New York Cornell Sta. Mem. 28, pp. 94, pls. 5, figs. 6.)

- ✓ Sale of Farm Products Through Warehouses of the State Warehouse System. By W.R. Camp. (North Carolina Sta. Farmers' Market Bul. 6(1919), No. 30 pp. 12.)
- Special Bulletin Food Department. (North Dakota Sta. Spec. Food Bul., 5(1919), No. 14, pp. 329-344.)
- ✓ Sheep-breeding Experiment.--Inheritance of Characters in Sheep. By S.F. Russell. (Oklahoma Sta. Tech. Bul. 126, pp. 22, figs. 8.)
- ✓ The Crow (Corvus brachyrhynchos). By C.E. Sanborn, R.O. Whitenton, and C.O. Chambers. (Oklahoma Sta. Bul. 138, pp. 8.)
- Sulphur as a Fertilizer for Alfalfa in Southern Oregon. By F.C. Reimer and H.V. Tartar. (Oregon Sta. Bul. 163, pp. 40, figs. 9.)
- Finishing Pigs for Market. By E.J. Fjeldsted and E.L. Potter. (Oregon Sta. Bul. 165, pp. 15.)
- Rules and Regulations Adopted Under the Provisions of the Texas Feed Law, By F.D. Fuller and B. Youngblood. (Texas Sta. Cont. Circ. C, pp. 8.)
- The Texas Foul Brood Law.--Revised Regulations. By F.B. Padlock. (Texas Sta. Cont. Circ. D, pp. 11.)
- A Comparison of Methods for Determining Soil Acidity and a Study of the Effects of Green Manures on Soil Acidity. By H.H. Hill. (Virginia Sta. Tech. Bul. 19, pp. 25.)
- Annual Report, 1917-18. By A.W. Drinkard, Jr. (Virginia Sta. Rpt. 1917-18 pp. 65, figs. 7.)
- Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Western Washington Sta. Mo. Bul. 7(1919), No. 9, pp. 133-152, figs. 10.)

